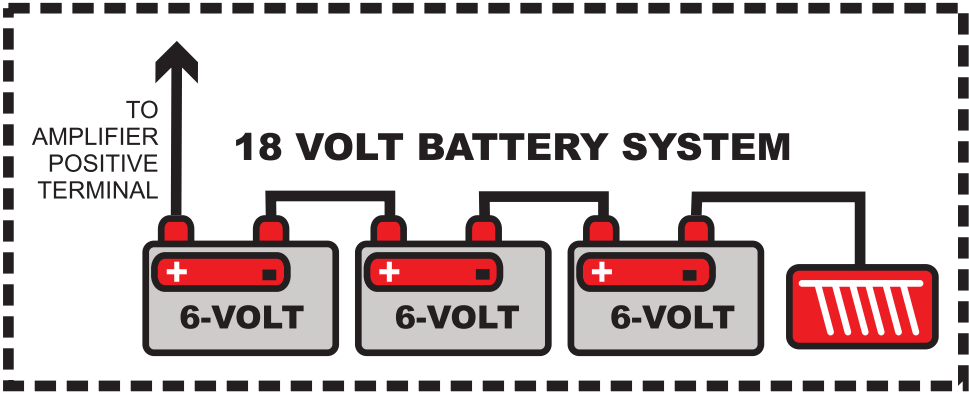
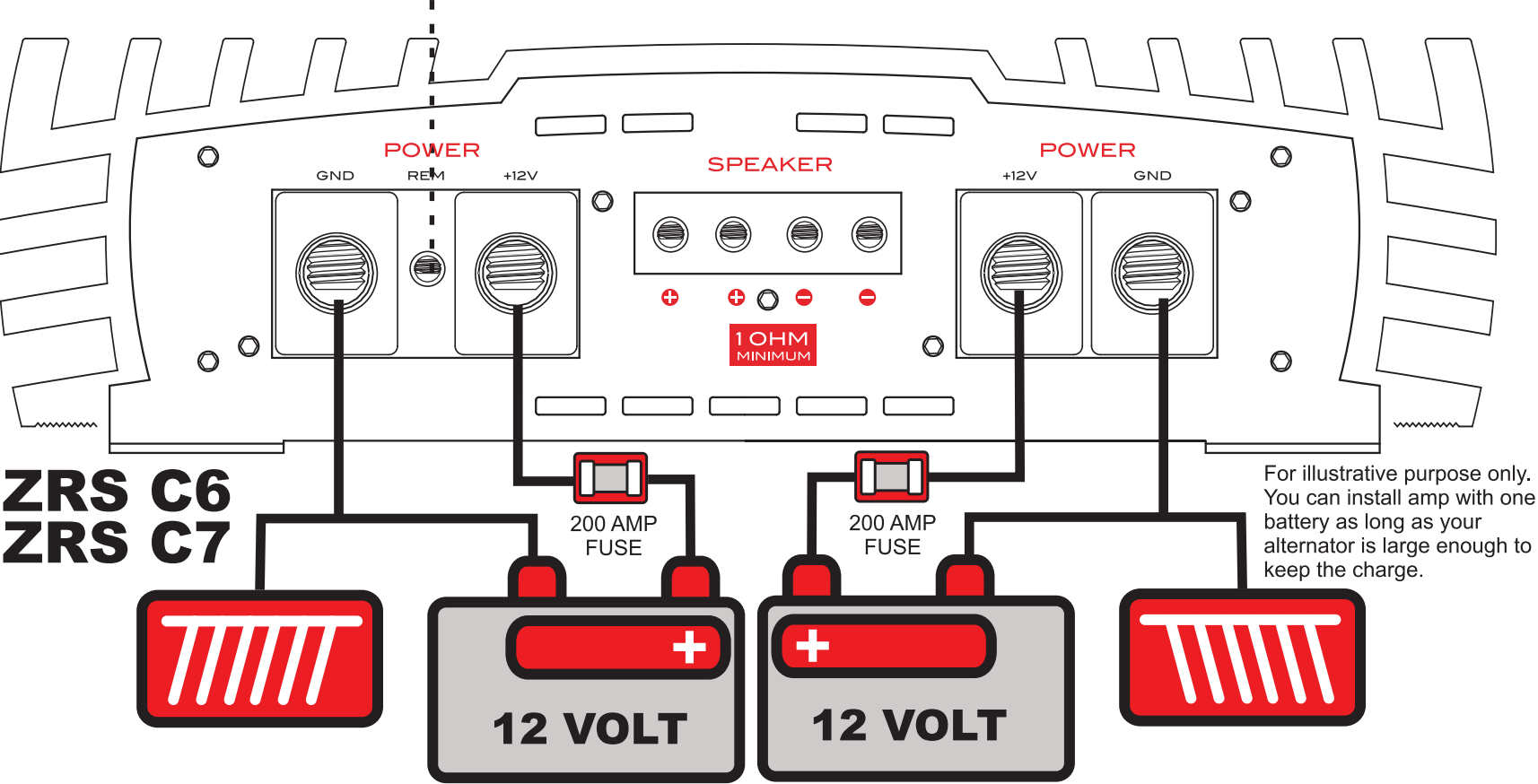
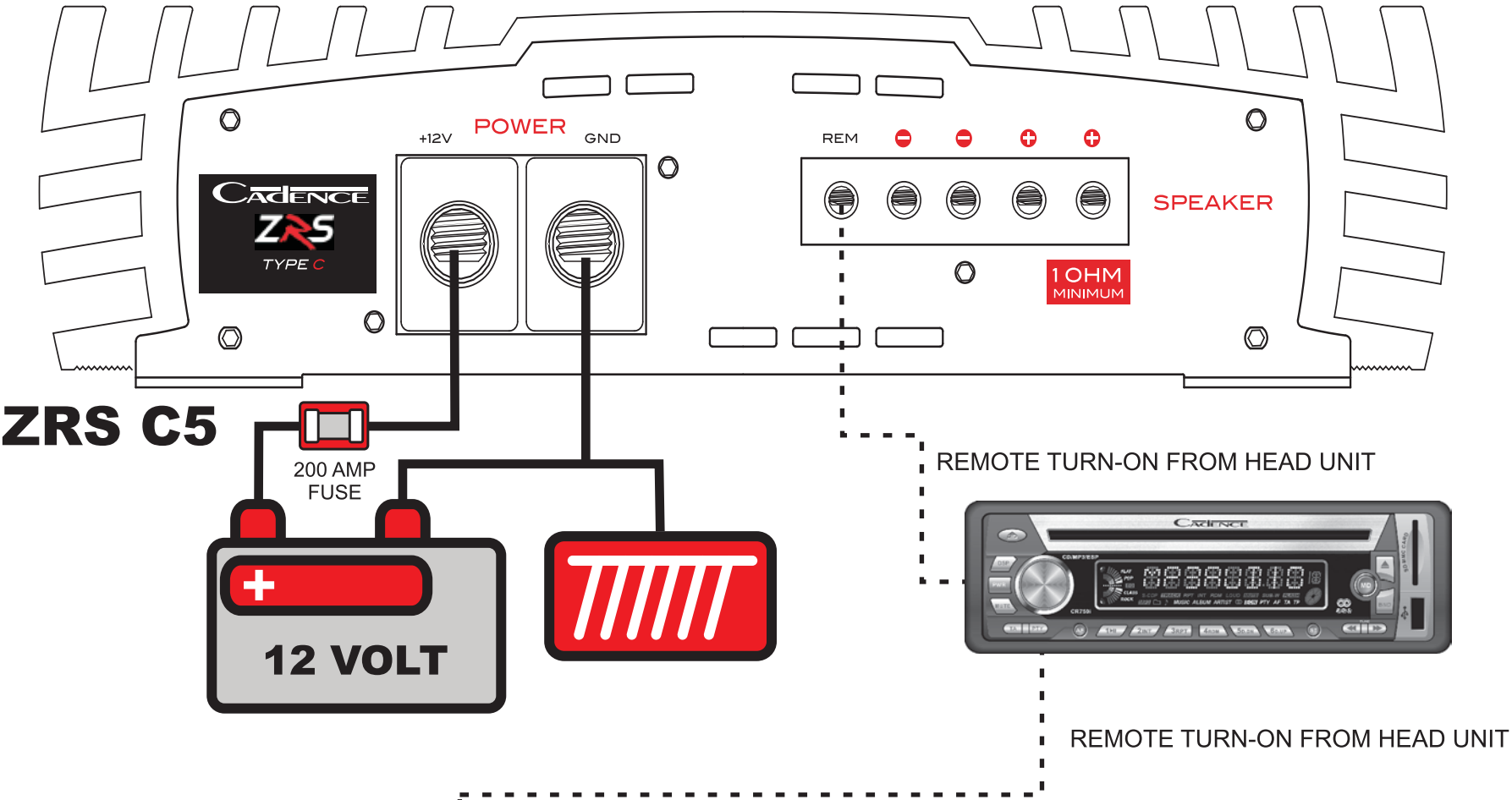


ZRS C5/C6/C7 QUICK INSTALLATION GUIDE



DUE TO THE EXTREME HIGH POWER CAPABILITIES OF THE CADENCE ZRS C5, C6 AND C7 WE RECOMMEND 0 TO 2 GAUGE POWER AND GROUND CABLES MINIMUM FOR TYPICAL INSTALLATIONS. YOU MUST INSTALL AN ADDITIONAL 200 AMP IN-LINE FUSE IN THE MAIN POWER CABLE OF THE ZRS C5 AND A 400 AMP FUSE FOR THE ZRS C6 AND ZRS C7. THE ZRS C5, C6 AND C7 ARE CAPABLE OF 18 VOLT DC INPUT AND WILL OUTPUT SUBSTANTIALLY MORE POWER WHEN POWERED BY 18 VOLTS. THIS CAN BE ACHIEVED BY WIRING THREE 6-VOLT GOLF CART STYLE DEEP CYCLE BATTERIES IN SERIES.

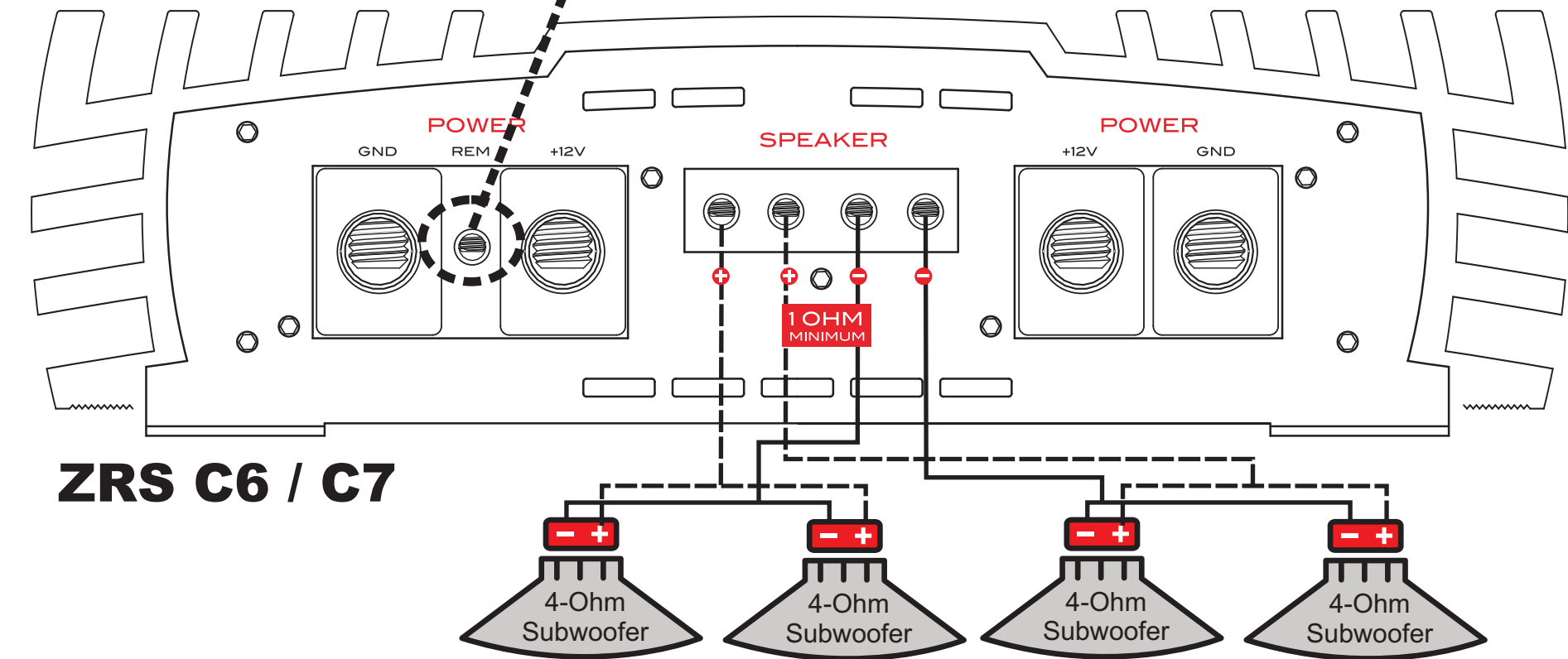
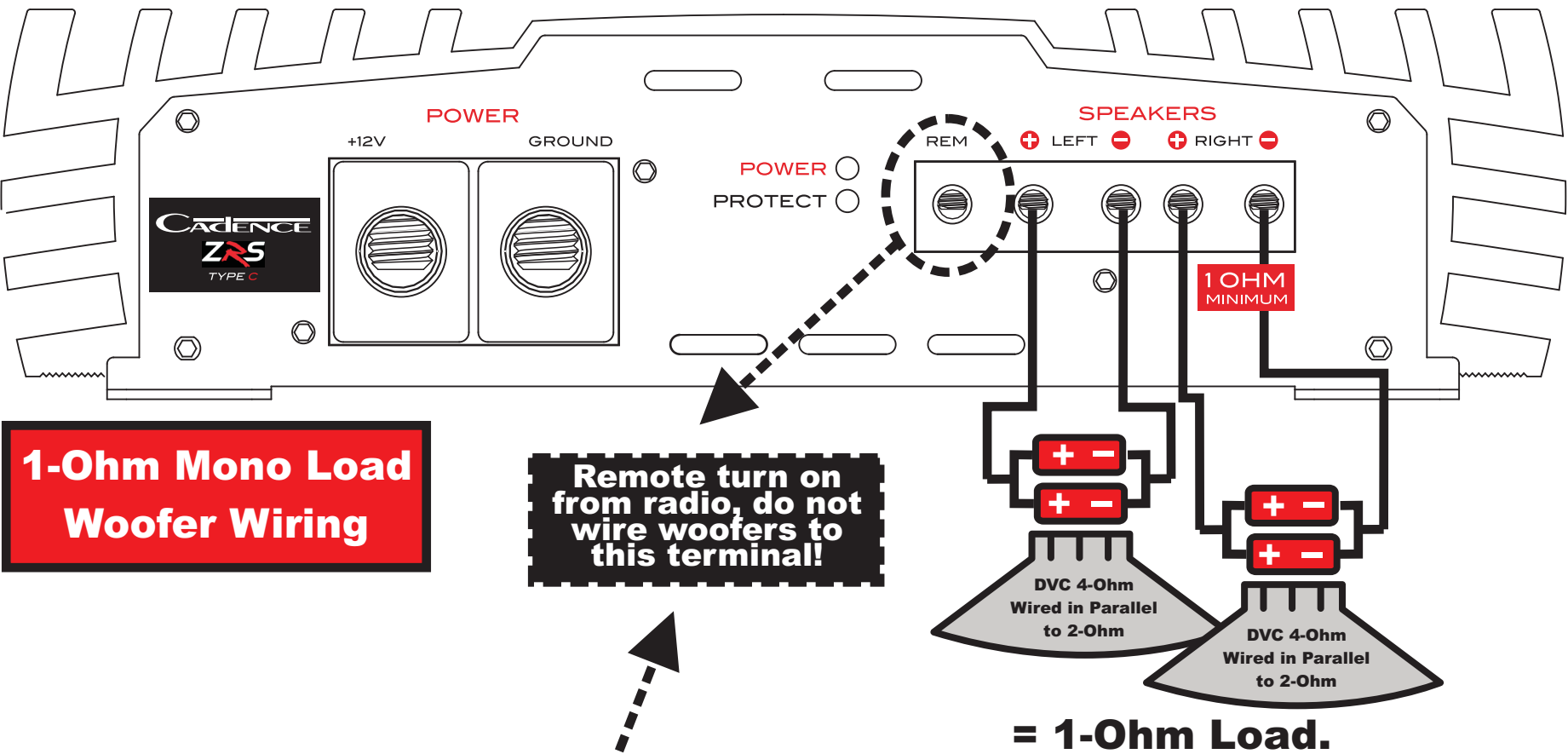
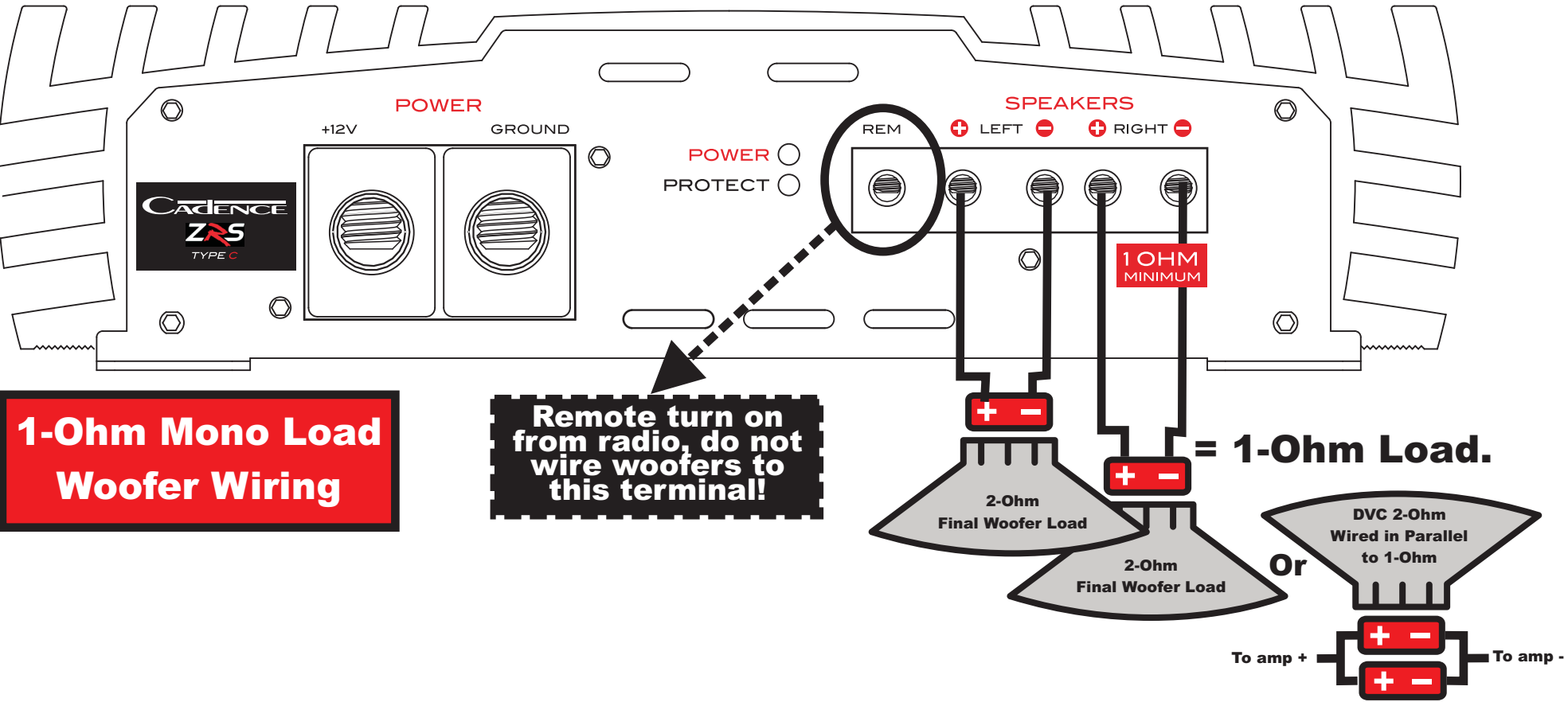
4-Ohm Power	:	1 x 1250 Watts RMS
2-Ohm Power	:	1 x 2500 Watts RMS
1-Ohm Power	:	1 x 5000 Watts RMS
Two Amps Bridged	:	1 x 10,000 Watts RMS @ 2-Ohm
Damping Factor	:	>100 @ 100Hz
Preamp Voltage	:	200mV to 6Volt
Frequency Response	:	10Hz-500Hz
Signal to Noise Ratio	:	>100dB
Crossover Slope	:	24dB
Subsonic Filter	:	10Hz - 50Hz Adjustable
LP Crossover	:	35Hz-250Hz Adjustable
Bass Equalizer	:	0 - 9dB Adjustable
Phase Shift	:	0 - 180 Degrees Adjustable
Dimensions	:	9.6" x 2.4" x 22" (WxHxL)

ZRS Type C5
1 x 1250 Watts RMS
1 x 2500 Watts RMS
1 x 5000 Watts RMS
1 x 10,000 Watts RMS @ 2-Ohm
>100 @ 100Hz
200mV to 6Volt
10Hz-500Hz
>100dB
24dB
10Hz - 50Hz Adjustable
35Hz-250Hz Adjustable
0 - 9dB Adjustable
0 - 180 Degrees Adjustable
9.6" x 2.4" x 24" (WxHxL)

ZRS Type C6
1 x 1500 Watts RMS
1 x 3000 Watts RMS
1 x 6000 Watts RMS
1 x 12,000 Watts RMS @ 2-Ohm
>100 @ 100Hz
200mV to 6Volt
10Hz-500Hz
>100dB
24dB
10Hz - 50Hz Adjustable
35Hz-250Hz Adjustable
0 - 9dB Adjustable
0 - 180 Degrees Adjustable
9.6" x 2.4" x 24" (WxHxL)

ZRS Type C7
1 x 1750 Watts RMS
1 x 3500 Watts RMS
1 x 7000 Watts RMS
1 x 14,000 Watts RMS @ 2-Ohm
>100 @ 100Hz
200mV to 6Volt
10Hz-500Hz
>100dB
24dB
10Hz - 50Hz Adjustable
35Hz-250Hz Adjustable
0 - 9dB Adjustable
0 - 180 Degrees Adjustable
9.6" x 2.4" x 26" (WxHxL)

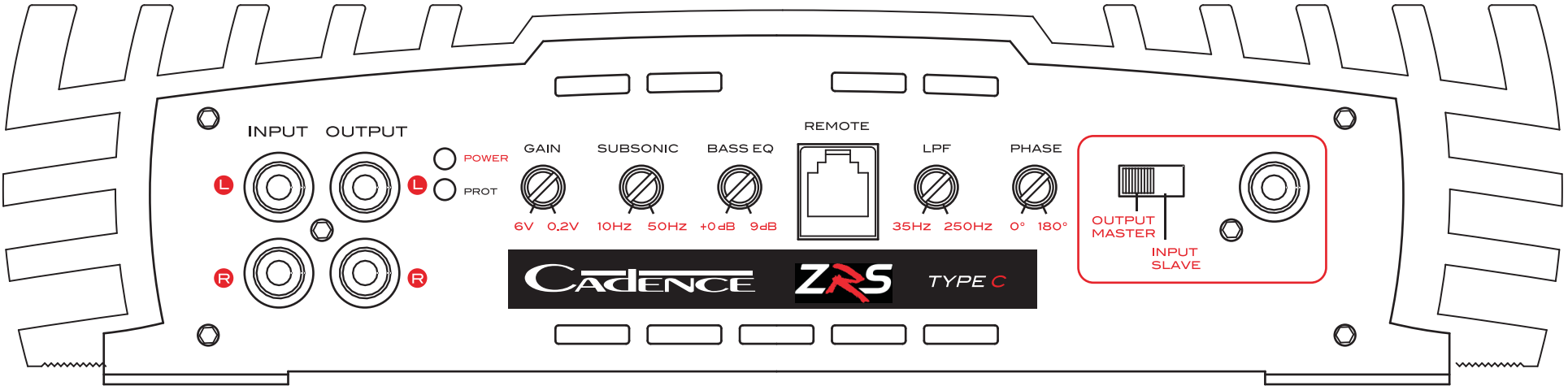
ZRS C5



Four 4-Ohm Subwoofers wired in parallel to the C5, C6 or C7 will equal a 1-Ohm mono load.

CADENCE

ZRS C5 / C6 / C7 CONTROLS



RCA PREAMP OUTPUT

OUTPUT

The preamp output is a full range signal mixed from both input channels. Use this signal to feed a secondary full range amplifier in your system.

INPUT GAIN CONTROL

GAIN

The ZRS C5, C6, and C7 amplifiers feature advanced input gain control from 0.2 volts to 6 volts so that the amp can operate efficiently and at full power from any head unit pre amp signal.

DASH MOUNT BASS REMOTE

REMOTE

When using the Remote Subwoofer Control in a multi amp system the bass remote of the Master amp will control all amps in the system. Use only cable supplied with the remote for connection.

POWER & DIAGNOSTIC LED INDICATORS

POWER

PROTECT

ZRS amplifiers feature sophisticated IC controlled protection circuitry. If the amp goes in to a diagnostic condition from thermal overload or speaker short circuit the LED will light and amp will shut down.

ADJUSTABLE SUBSONIC FILTER WITH PHASE CONTROL

SUBSONIC

10Hz 50Hz

PHASE

0° 180°

The ZRS C5,6,7 feature a fully adjustable Subsonic Filter which can be set from 10Hz - 50Hz. This High Pass Filter is especially useful when tuning vented enclosures. The Subsonic filter should be set at vent tuning frequency to protect against woofer unloading.

The adjustable Phase Control will help fine tune your bass system to time align with your midrange and high frequency speakers.

24dB CROSSOVER SLOPE BASS EQUALIZER

LPF

35Hz 250Hz

BASS EQ

+0dB 9dB

The crossover of the ZRS C5,6,7 features a steep 24dB per octave slope Linkwitz-Riley low pass crossover ensuring that only the lowest frequencies are reproduced by the amplifier.

The amplifier also includes a Bass Equalizer with a center frequency of 45Hz which can be adjusted for up to 9dB of additional gain at that frequency.

CONNECTION TERMINALS

POWER

POWER

The ZRS C5, C6, C7 features heavy duty bolt down terminals, the power and ground terminals accept 0 - 2 gauge wire while the speaker terminals can accept 8 gauge wire. **BE SURE TO HOOK-UP BOTH POWER TERMINALS ON THE C6 AND C7.**

We have spared no expense in designing these amplifiers, creating the most rugged, reliable, powerful and best performing amplifiers. In fact we are so sure of the quality we backup every ZRS Series amplifier with our exclusive two-year warranty which exemplifies our commitment to excellence in car audio musical reproduction. (See enclosed warranty card for details.)

Please read this installation guide carefully for proper use of your Cadence power amplifier. Should you need technical assistance during or after your installation please call our technical-line between 9:30 am and 5:00 PM EST at 732/370-5400. Read this entire guide fully before attempting your installation.

WARNING: BE AWARE! Use of this amplifier at extreme high volumes for extended periods of time may cause hearing loss and or hearing damage. During periods of prolonged high volume levels it is recommended that you use ear safety devices. Playing Cadence amplifiers at high volume levels while driving will impair your ability to hear necessary traffic sounds. While driving always keep your sound volume at reasonable levels. We at Cadence want you listening for many years to come.

When installing the amplifier, secure it tightly. An unmounted amplifier in your car can cause serious injury to passengers and damage to your vehicle if it is set in motion by an abrupt driving maneuver or short stop.

We suggest you construct a Red wiring harness with 2 additional fuse. One fuse should be located near the car battery. This fuse near the battery offers protection against damage from short circuits to the car chassis between the battery and the amplifier. A second fuse closer to the amplifier offers additional safety to the amplifier itself. This fused red power wire should be attached to the amplifier power terminal marked **12V+**.

The wire harness should be made of primary cable of at least **4** gauge. The harness should terminate in a large ring terminal for connection directly to the positive terminal of the car battery. Use a spade plug to attach the wire, which connects to the amplifier location marked **12V+**.

A second black color wire of equal gauge should be used as a ground connection to a welded chassis member. When connecting the ground wire make sure that there is no paint or other insulator blocking a good ground connection. When installing multiple amplifiers, mount them in close proximity so that they can all share the same ground point. Attach the black ground wire to the amplifier screw terminal marked **Ground**.

We recommend that you use the Cadence amplifier installation kits, which contain all the cabling and accessories necessary for a good, reliable installation.

Over the years we have received amplifiers back to our service department with melted power/ground terminals. The cause of this is a bad ground connection. When there is a lack of good ground, heat builds up at the weakest point which happens to be the contact screw of the amplifier terminal. Over time the heat generated will begin to melt the terminal. It is a good practice to feel the power and ground wires with your hands, near their amplifier connection after having played the amp for a while. If the wires feel hot to the touch you probably have a bad or loose connection. If you are sure of your connections and the wires still feel hot to the touch, you should upgrade the gauge of wire to next heaviest gauge.

The remote turn on connection is located on the barrier strip next to the power and ground connections. This connection is responsible for turning the amplifier on and off with the rest of the system. A smaller gauge wire can be used to make this connection to your radio's power antenna lead. Should your system not have any turn on leads, you can wire the remote terminal to an accessory lead, which turns on, with your cars ignition.

The ZRS Series amplifiers feature RCA preamp inputs. Run RCA cables from your sound source to the inputs of the amplifier. We suggest the use of high quality shielded RCA patch cords to help reduce and eliminate unwanted electrical noise to your system.

To avoid electrical noise from being injected in to your sound systems be sure to run the RCA cables on the opposite side of the vehicle that you used to carry the power and ground leads of the amplifier.

Before you begin with your installation, disconnect the NEGATIVE (-) terminal from your car's battery. This safety precaution will avoid possible short circuits while wiring your amplifier. Cadence amplifiers operate on 12-volt negative ground systems only.

It is recommend that you layout your sound system design on paper first. This will help you during the installation so that you will have a wiring flow chart and not miss-wire any of your components.

Mount the amplifier in the trunk or hatch area of your vehicle. Never install an amplifier in the engine compartment or on the firewall. Please be sure to leave breathing room around the amplifier heat sink so that it can dissipate the heat it produces efficiently. The amplifier can be installed either horizontally or vertically.

When mounting the amplifier on the trunk floor, be sure to watch for your gas tank, gas lines and electrical lines. Do not drill or mount any screws where they might penetrate the gas tank of your car.

Once the system is operational, the first thing to do, is set all crossover points to approximate settings. In the case of the basic sub woofer system Low Pass filter crossover at 100 Hz or so. Set the Bass Boost equalizer controls to 0 dB (Flat Switch Position.)

Now you should set the amplifiers Input Sensitivity adjustment. The knob accessible on the side of the amplifier marked INPUT GAIN adjusts the input sensitivity from 300mV to 7Volts.

To adjust the input sensitivity, turn the control using a small flat head screwdriver fully counter clock wise to the minimum position. Do not apply any pressure while turning as this might break the control unit. Adjust your radio volume level to maximum volume. Now turn the level control on the amplifier clockwise towards the Maximum marking until audible distortion occurs. When you begin to hear any distortion in the sound, back down one notch and your amp is set. It is helpful to have a second person to help you set the gain.

When setting up a multi-amp system, set each amplifier's gain separately. Start off with the bass amplifier, then adjust the highs amplifier's level control to match.

Once you are satisfied with the level control settings, use any equalizer controls to adjust the system tonal level for personal preference. Keep in mind that after equalizing, you may have to go back and reset the amplifiers level controls.

The level control of any car amplifier should not be mistaken for a volume control. It is a sophisticated device designed to match the output level of your source unit to the input level of the amplifier. Do not adjust the amplifier gain to maximum unless your input level requires it.

If your unit has been professionally installed please do not change the gain settings set by the installer, he is the professional!

Your system can also be extremely sensitive to noise when the LEVEL is set to maximum and does not match your input signal. The gain adjustments need to be made only once when first setting up the system.